

AMENDMENTS TO THE SPECIFICATION

Please replace paragraph [0022] with the following amended paragraph:

As used herein, the terms "metal having a first oxidation state" and "first form of a metal" refer to the form of the metal comprising the thin layer coated onto the surface of the precursor. For example, in one embodiment the precursor coating comprises a thin layer of a metal having a first oxidation state which is consequently treated to produce a purifier material comprising a nonreactive substrate coated with a thin layer of one or more oxides of the metal having a second, lower oxidation state. In another embodiment, the precursor coating comprises a first form of the metal, wherein the first form is other than a metal oxide. In this embodiment, the precursor is treated to produce a purifier material comprising a nonreactive substrate coated with a thin layer of a metal oxide having [[a]] the same oxidation state as the first form of the metal. Examples of a "metal having a first oxidation state" and "first form of a metal" include, but are not limited to, an oxide, a salt, an acid, an organic complex or an inorganic complex of the metal. Examples of metals suitable for purposes of this invention include, but are not limited to, vanadium, molybdenum, antimony, bismuth, tin, cerium, chromium, cobalt, copper, tungsten, and mixtures thereof. Suitable metal salts for purposes of this invention include, but are not limited to, nitrates, carbonates, oxalates, etc.

Please replace paragraph [0045] with the following amended paragraph:

Sample 1-1 was then reconditioned to produce the $\text{Mo}_x\text{O}_y/\text{Al}_2\text{O}_3$ purifier material 1-2 using the conditions shown in Table 1. Sample 1-2 was then tested for its ability to adsorb oxygen contained in ammonia as above. An adsorption capacity of about 1.0 liters of oxygen for each liter of sample 1-1 was found.

Please replace paragraph [0053] with the following amended paragraph:

The conditioned and tested purifier material 7-1 was reconditioned using only 100% hydrogen to produce a $\text{Ce}_x\text{O}_y/\text{Al}_2\text{O}_3$ purifier material 7-2 as summarized in Table 2. Purifier material 7-2 was first tested for its efficiency in adsorbing oxygen contained in helium, and then tested for its efficiency in removing ~~both~~ oxygen from ammonia. As shown in Table 2, purifier material 7-2 was found to be efficient in removing oxygen from helium but not from ammonia.